

Form PTO-1449

Docket Number 220002060724

Application Number 09/927,788

INFORMATION DISCLOSURE CITATION  
IN AN APPLICATION

Applicant

Michael J. MAHAN et al.

# 11

Filing Date August 9, 2001

Group Art Unit 1645

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## U.S. PATENT DOCUMENTS

| Examiner<br>Initials | Ref.<br>No. | Date       | Document No. | Name               | Class | Subclass | Filing Date If<br>Appropriate |
|----------------------|-------------|------------|--------------|--------------------|-------|----------|-------------------------------|
| ✓                    | 1.          | 04/05/1977 | 4,016,253    | Switzer et al.     |       |          |                               |
|                      | 2.          | 09/11/1979 | 4,167,560    | Wohler, Jr.        |       |          |                               |
|                      | 3.          | 10/16/1979 | 4,171,353    | Ryan               |       |          |                               |
|                      | 4.          | 03/13/1984 | 4,436,728    | Ribi et al.        |       |          |                               |
|                      | 5.          | 02/23/1988 | 4,726,947    | Shimada et al.     |       |          |                               |
|                      | 6.          | 10/15/1991 | 5,057,540    | Kensil et al.      |       |          |                               |
|                      | 7.          | 12/31/1991 | 5,077,284    | Loria et al.       |       |          |                               |
|                      | 8.          | 12/15/1992 | 5,171,568    | Burke et al.       |       |          |                               |
|                      | 9.          | 05/11/1993 | 5,210,035    | Stocker            |       |          |                               |
|                      | 10.         | 12/28/1993 | 5,273,744    | Musoke et al       |       |          |                               |
|                      | 11.         | 03/15/1994 | 5,294,441    | Curtiss, III       |       |          |                               |
|                      | 12.         | 04/18/1995 | 5,407,684    | Loria et al.       |       |          |                               |
|                      | 13.         | 07/18/1995 | 5,434,065    | Mahan et al.       |       |          |                               |
|                      | 14.         | 12/24/1996 | 5,587,305    | Briggs et al       |       |          |                               |
|                      | 15.         | 09/30/1997 | 5,672,345    | Curtiss, III       |       |          |                               |
|                      | 16.         | 11/24/1998 | 5,840,483    | Curtiss, III       |       |          |                               |
|                      | 17.         | 06/15/1999 | 5,912,119    | Radman et al       |       |          |                               |
|                      | 18.         | 06/22/1999 | 5,914,113    | Schrier            |       |          |                               |
|                      | 19.         | 10/05/1999 | 5,961,985    | Sprouse et al      |       |          |                               |
|                      | 20.         | 10/12/1999 | 5,965,415    | Radman et al       |       |          |                               |
|                      | 21.         | 01/04/2000 | 6,010,705    | Thune et al        |       |          |                               |
|                      | 22.         | 03/07/2000 | 6,033,673    | Clements           |       |          |                               |
|                      | 23.         | 05/29/2001 | 6,238,901    | Morgan et al       |       |          |                               |
| ✓                    | 24.         | 07/17/2001 | 6,261,561    | Stewart, Jr. et al |       |          |                               |

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## FOREIGN PATENT DOCUMENTS

| Examiner<br>Initials | Ref.<br>No. | Date       | Document No. | Country | Class | Subclass | Translation<br>YES NO |  |
|----------------------|-------------|------------|--------------|---------|-------|----------|-----------------------|--|
| VB                   | 25.         | 11/14/1991 | WO 91/16924  | WIPO    |       |          |                       |  |
|                      | 26.         | 10/01/1992 | WO 92/16231  | WIPO    |       |          |                       |  |
|                      | 27.         | 11/27/1997 | WO 97/44487  | WIPO    |       |          |                       |  |
|                      | 28.         | 01/22/1998 | WO 98/02552  | WIPO    |       |          |                       |  |
|                      | 29.         | 03/26/1998 | WO 98/12206  | WIPO    |       |          |                       |  |
|                      | 30.         | 09/02/1999 | WO 99/43809  | WIPO    |       |          |                       |  |
|                      | 31.         | 08/10/2000 | WO 00/45840  | WIPO    |       |          |                       |  |
|                      | 32.         | 06/28/2001 | WO 01/46428  | WIPO    |       |          |                       |  |

## OTHER DOCUMENTS

(including author, title, Date, Pertinent Pages, Etc.)

| Examiner<br>Initials | Ref.<br>No. | Title  |
|----------------------|-------------|--|
| VB                   | 33.         | Anderson, P. and Smith, D. H. (1977). "Immunogenicity in Weanling Rabbits of a Polyribophosphate Complex from <i>Haemophilus influenzae</i> Type B," <i>J. Infect. Dis.</i> 136:s63-s70. |
|                      | 34.         | Ash, C. (1999). "Dam Virulence," <i>Trends in Microbiology</i> , 7(6): 231.  |
|                      | 35.         | Baker, R. C. et al. (1983). "Survival of <i>Salmonella typhimurium</i> and <i>Staphylococcus aureus</i> in Eggs Cooked by Different Methods," <i>Poult. Sci.</i> 62(7):1211-1216.        |
|                      | 36.         | Bandyopadhyay and Das. (1994). "The DNA adenine methyltransferase-encoding gene ( <i>dam</i> ) of <i>Vibrio cholerae</i> ," <i>Gene</i> 140: 67-71.                                      |
|                      | 37.         | Blattner et al. (1997). "The Complete Genome Sequence of <i>Escherichia coli</i> K-12," <i>Science</i> 277: 1453-1474.   |
|                      | 38.         | Blyn, L.B. et al. (1990). "Regulation of <i>Pap</i> Pilin Phase Variation by a Mechanism Involving Differential Dam Methylation States," <i>The EMBO Journal</i> 9(12):4045-4054.        |
|                      | 39.         | Boslego et al. (1991) Chapter 17 In <i>Vaccines and Immunotherapy</i> Pergamon Press, pp. 211-223.   |
|                      | 40.         | Boyd, E.F. et al. (1993). " <i>Salmonella</i> Reference Collection B (SARB): Strains of 37 Serovars of Subspecies I," <i>Journal of General Microbiology</i> 139:1125-1132.              |
|                      | 41.         | Braaten et al. (1994). "Methylation Patterns in <i>Pap</i> Regulatory DNA Control Pyelonephritis-Associated Pili Phase Variation in <i>E. coli</i> ," <i>Cell</i> 76: 577-588.           |
|                      | 42.         | Brawer, R et al. (1996), Abstracts of the General Meeting of the American Society of Microbiology, Vol. 96, page 500.  |

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|     |   |
|-----|---|
| 43. | Brawer, R. et al. (1998). "A Temperature-Sensitive DNA Adenine Methyltransferase Mutant of <i>Salmonella typhimurium</i> ," <i>Arch. Microbiology</i> 169(6):530-533.   |
| 44. | Brown, H. M. and Wilson, R. N. (1959). "Chronic Bronchitis in Industry an Account of a Trial of H. Influenzae Vaccine," <i>British Med. J.</i> 263-267.   |
| 45. | Cardenas, L. et al. (1992). "Oral Immunization Using Live Attenuated <i>Salmonella</i> SPP. as Carriers of Foreign Antigens," <i>Clinical Microbiology Reviews</i> 5(3): 328-342.   |
| 46. | Carroll, C. D. (1998). "Evaluation of a Structure-based Statine Cyclic Diamino Amide Encoded Combinatorial Library Against Plasmepsin II and Cathepsin D," <i>Bioorg. Med. Chem. Lett.</i> 8: 3203-3206.  |
| 47. | Cerquetti, M.C. et al. (May 4-8, 1996) 97th General Meeting of the American Society for Microbiology, Vol. 97.  |
| 48. | Cerquetti, M.C. et al., Abstracts of the General Meeting of the American Society for Microbiology, Vol. 96, Abstract H-48, page 491.  |
| 49. | Cerquetti, MC et al., (1997). Abstracts of the General Meeting of the American Society for Microbiology, Vol. 97, page 318, .   |
| 50. | Charlier, D. et al. (1995). "Pyrimidine Regulation of the <i>Escherichia coli</i> and <i>Salmonella typhimurium</i> carAB operons: CarP and Integration Host factor (IHF) Modulate the Methylation Status of a GATC Site Present in the Control Region," <i>Journal of Mol. Biol.</i> 250(4):383-391. |
| 51. | Chikami, G.K. et al. (1985). "Plasmid-Mediated Virulence in <i>Salmonella dublin</i> Demonstrated by Use of a Tn5-oriT Construct," <i>Infection and Immunity</i> 50(2):420-424.   |
| 52. | Conner, C. P. et al. (1998). "Differential Patterns of Acquired Virulence Genes Distinguish <i>Salmonella</i> strains," <i>Proc. Natl. Acad. Sci. USA</i> 14: 4641-4645.  |
| 53. | Conner, C. P. et al. (1998). "In Vivo Gene expression: Contributions to Infection, Virulence, and Pathogenesis," <i>Current Top Microbiol Immunol.</i> 225: 1-12.   |
| 54. | Correa, N.E. et al. (2000). "Phosphorylation of the Flagellar Regulatory Protein FlrC is Necessary for <i>Vibrio Cholerae</i> Motility and Enhanced Colonization," <i>Molecular Microbiology</i> 35(4):743-755.   |
| 55. | Curtiss, R. and Kelly, S.M. (1987). "Salmonella typhimurium Deletion Mutants Lacking Adenylate Cyclase and Cyclic AMP Receptor Protein are Avirulent and Immunogenic," <i>Infect. Immun.</i> 55(12): 3035-3043.   |
| 56. | Donnenberg, M. S. et al. (1991). "Construction of an EAE Deletion Mutant of Enteropathogenic <i>Escherichia coli</i> by Using a Positive-Selection Suicide Vector," <i>Infect. Immun.</i> 59(12): 4310-4317.  |
| 57. | Earhart, C.F. ed. (1996). "Uptake and Metabolism of Iron and Molybdenum," Chapter 71 In <i>Escherichia coli and Salmonella Cellular and Molecular Biology</i> , 2nd ed, Vol. 1, ASM Press, Washington, D.C., pp. 1075-1090.   |

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Group Art Unit 1645 6 2002

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MAY 16 2002  
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58. Eisenstein, T.K. (1999). "Mucosal Immune Defense: The Salmonella typhimurium Model," Chapter 3 *In Intracellular Bacterial Vaccine Vectors*. Paterson, Y., ed., Wiley-Liss, Inc., New York, NY, pp. 51-109.
59. Ellis, RW. ed. (1988). Chapter 29 *In Vaccines* WB Saunders Co., pp. 568-574.
60. Fleischmann et al. (1995). "Whole-Genome Random Sequencing and Assembly of *Haemophilus influenzae* Rd.," *Science* 269: 496-512.
61. Fraser et al. (1998). "Complete Genome Sequence of *Treponema pallidum*, the Syphilis Spirochete," *Science* 281: 375-388.
62. Garcia-Del Portillo, F. et al. (1999). "DNA Adenine Methylase Mutants of Salmonella typhimurium Show Defects in Protein Secretion, Cell Invasion, and M Cell Cytotoxicity," *Proc. Natl. Acad. Sci. USA* 96: 11578-11583.
63. Gast, R. K. and Beard, C. W. (1990). "Isolation of Salmonella enteritidis from Internal Organs of Experimentally Infected Hens," *Avian Dis.* 34:991-993.
64. Groisman, E.A. and Heffron, F. (1995). "Regulation of Salmonella Virulence by Two-Component Regulatory Systems," Chapter 20 *In Two-component signal transduction*. Hoch, J.A., ed., ASM Press, Washington, D.C. pp. 319-332.
65. Gulig, P.A. et al. (1993). "Molecular Analysis of SPV Virulence Genes of the Salmonella Virulence Plasmids," *Mol. Microbiol.* 7(6): 825-830.
66. Hafner, L.M. et al. (1991). "Precise Excision of Tn10 in Salmonella typhimurium: Effects of Mutations in the polA, dam, mutH and mutB Genes and of Methionine or Ethionine in the Plating Medium," *Mutation Research* 263(3):179-184.
67. Hale, W. B. et al. (June 1994). "Analysis of Nonmethylated GATC Sites in the Escherichia coli Chromosome and Identification of Sites that are Differentially Methylated in Response to Environmental Stimuli," *J Bacteriol.* 176(11): 3438-3441.
68. Hassan, J.O. and Curtiss, R. (1997). "Efficacy of a Live Avirulent Salmonella typhimurium Vaccine in Preventing Colonization and Invasion of Laying Hens by Salmonella typhimurium and Salmonella enteritidis," *Avian Dis.* 41: 781-791.
69. Heithoff, D.M. et al. (1997). "Bacterial Infection as Assessed by *In Vivo* Gene Expression," *Proc. Natl. Acad. Sci. USA* 94: 934-939.
70. Heithoff, D.M. et al. (1997). "Dissecting the Biology of a Pathogen During Infection," *Trends Microbiol.* 5(12):509-513.
71. Heithoff, D.M. et al. (1999). "An Essential Role for DNA Adenine Methylation in Bacterial Virulence," *Science* 284(5416):967-970.
72. Heithoff, D. M. et al. (1999). "Coordinate Intracellular Expression of *Salmonella* Genes Induced During Infection," *J. Bacteriol.* 181: 799-807.
73. Heithoff, D.M. et al. (June 2000). Dissertation Abstracts International, Vol. 60,12-B, pages 5906-B, col. 2(abstract only).

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|   |  | <b>RECEIVED</b><br><b>MAY 16 2002</b><br><b>TECH CENTER 1600/2900</b> |                               |
| 74.   | Hinton, M. et al. (1989). "Experimental Salmonella enteritidis Infection in Chicks," <i>Ver. Rec.</i> (124):223.   |   |                               |
| 75.   | Hone, D. et al. (1987). "Construction of Defined <i>galE</i> Mutants of <i>Salmonella</i> for Use as Vaccines," <i>J. Infect. Dis.</i> 156(1):167-174.   |   |                               |
| 76.   | Hone, D.M. et al. (1999). "Mucosal Vaccination with Salmonella Vaccine Vectors," Chapter 6 In <i>Intracellular Bacterial Vaccine Vectors</i> . Paterson, Y. ed., Wiley-Liss, Inc., New York, pp. 171-222.  |   |                               |
| 77.   | Hormaeche, C.E. et al. (1996). "Protection Against Oral Challenge Three Months After I.V. Immunization of BALB/c Mice With Live Aro Salmonella typhimurium and Salmonella enteritidis Vaccines is Serotype (Species)-Dependent and Only Partially Determined by the main LPS O Antigen," <i>Vaccine</i> 14(4):251-259. |   |                               |
| 78.   | Humphrey, T. J. et al. (1989). "The Survival of Salmonellas in Shell Eggs Cooked Under Stimulated Domestic Conditions," <i>Epidem. Inf.</i> 103:35-45.   |   |                               |
| 79.   | Humphrey, T. J. (1990). "Heat Resistance in Salmonella enteritidis Phage Type 4: the Influence of Storage Temperatures Before Heating," <i>J. App. Bacter.</i> 69:493-497.   |   |                               |
| 80.   | Humphrey, T. J. et al. (1990). "A Comparative Study of the Heat Resistance of Salmonellas in Homogenized Whole Egg, Egg Yolk or Albumen," <i>Epidemiol. Infect.</i> 104:237-241.   |   |                               |
| 81.   | Jones, Bradley D. and Stanley Falkow. (1996). "Salmonellosis: Host Immune Responses and Bacterial Virulence Determinants," <i>Annual Review Immunology</i> 14:533-561.   |   |                               |
| 82.   | Julio, S. M. et al. (1998). "Directed Formation of Chromosomal Deletions in <i>Salmonella typhimurium</i> : Targeting of Specific Genes Induced During Infection," <i>Molec. Gen. Genet.</i> 258: 178-181.   |   |                               |
| 83.   | Kupchella, E et al., 23rd Annual Scientific Meeting of the Environmental mutagen society, March 150-19, 1992, suppl. 0(20), page 33, 1992 (abstract only).   |   |                               |
| 84.   | Lam, K. S. (1997). "Application of Combinatorial Library Methods in Cancer Research and Drug Discovery," <i>Anticancer Drug. Des.</i> 12: 145-167.   |   |                               |
| 85.   | Lavelle, J.M. (1986). "Potassium Chromate Potentiates Frameshift Mutagenesis in <i>E. coli</i> and <i>S. typhimurium</i> ," <i>Mutat. Res.</i> 171:1-10; especially page 7, col. 1.  |   |                               |
| 86.   | LeClerc et al. (1996). "High mutation frequencies among <i>Escherichia coli</i> and <i>Salmonella</i> pathogens," <i>Science</i> 274: 1208-1211.   |   |                               |
| 87.   | MacLeod, A. R. and Szyf, M. (1995). "Expression of Antisense to DNA Methyltransferase mRNA Induces DNA Demethylation and Inhibits Tumorigenesis," <i>J. Biol. Chem.</i> 7(14):8037-8043.   |   |                               |
| 88.   | Mahan, M. J. (9 April 1994). "Revealing Bacterial Infection Strategies," <i>Lancet.</i> 343(8902): 869-70.   |   |                               |
| 89.   | Mahan, M. J. et al. (1993). "Selection of Bacterial Virulence Genes that are Specifically Induced in Host Tissues," <i>Science</i> 259: 686-688.   |   |                               |

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|      |   |
|------|---|
| 90.  | Mahan, M. J. et al. (1995). "Antibiotic-based Selection for Bacterial Genes that are Specifically Induced During Infection of a Host," <i>Proc. natl. Acad. Sci. USA</i> 92:666-673.  |
| 91.  | Mahan, M.J. et al. (2000). "Assessment of Bacterial Pathogenesis by Analysis of Gene Expression in the Host," <i>Annual Reviews</i> 34:139-164.   |
| 92.  | Mäkelä, P. H. et al. (1977). "Polysaccharide Vaccines of Group A. <i>Neisseria meningitidis</i> and <i>Haemophilus influenzae</i> Type b: A Field Trial in Finland," <i>J. Infec. Dis.</i> 136:s43-s50.   |
| 93.  | Mankovich, JA et al. (1989). "Nucleotide Sequence of the Salmonella typhimurium mutL Gene Required for Mismatch Repair: Homology of MutL to HexB of Streptococcus pneumoniae and to PMS1 of the Yeast Saccharomyces cerevisiae," <i>Journal of Bacteriology</i> 171(10):5325-5331. (Abstract only). |
| 94.  | Marinus, M.G. (1984). "Correlation of DNA Adenine Methylase Activity with Spontaneous Mutability in <i>Escherichia coli</i> K-12," <i>Gene</i> . 28: 123-125.   |
| 95.  | Marinus, M.G. (1996). "Methylation of DNA," Chapter 53 <i>In E. coli and Salmonella: Cellular and Molecular Biology, 2nd ed.</i> Vol. 1, ASM Press, Washington, D.C., pp. 782-791.  |
| 96.  | Mekalanos, J.J. (1992). "Environmental Signals Controlling Expression of Virulence Determinants in Bacteria," <i>J. Bacteriol.</i> 174(1):1-7.  |
| 97.  | Miller, J.H. (1972). <i>Experiments in Molecular Genetics</i> , Cold Spring Harbor Laboratory, Table of Contents.   |
| 98.  | Miller, S.I. et al. (1990). "Salmonella Vaccines with Mutations in the phoP Virulence Regulon," <i>Res. Microbiol.</i> 141:817-821.   |
| 99.  | Monack, D.M. et al. (1998). "Yersinia-induced Apoptosis In Vivo Aids in the Establishment of a Systemic Infection of Mice," <i>J. Exp. Med.</i> 188(11):2127-2137.  |
| 100. | Neustadt, B.R. et al. (1998). "Construction of a Family of Biphenyl Combinatorial Libraries: Structure-activity Studies Utilizing Libraries of Mixtures," <i>Bioorg. Med. Chem. Lett.</i> 8:2395-2398.  |
| 101. | O'Farrell, P.H. (1975). "High Resolution Two-Dimensional Electrophoresis of Proteins," <i>The J. of Biol. Chemistry</i> 250(10):4007-4021.  |
| 102. | O'Hanley, P. et al. (1985). "Molecular Basis of Escherichia coli Colonization of the Upper Urinary Tract in BALB/c Mice," <i>J. Clin. Invest.</i> 75(2):347-360.  |
| 103. | O'Hanley, P. M. et al. (1985). "Gal-Gal Binding and Hemolysin Phenotypes and Genotypes Associated With Uropathogenic <i>Escherichia Coli</i> ," <i>N. Engl. J. Med.</i> 313(7):414-420.   |
| 104. | Pappenheimer, A. M. (1984). "Diphtheria," <i>In Bacterial Vaccines</i> R. Germaier ed., Academic Press: Orlando, FL., pp. 1-36.   |
| 105. | Parke, J. C. (1977). "Interim Report of a Controlled Field Trial Immunization with Capsular Polysaccharides of <i>Haemophilus influenzae</i> Type b and Group C <i>Neisseria meningitidis</i> in Mecklenberg Country, North Carolina (March 1974-March 1976)," <i>J. Infec. Dis.</i> 136:s51-s56.   |

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|---|--------------------------|

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|------|--|
| 106. | Parkman, P. D. et al. (1966). "Attenuated Rubella Virus," <i>N. Engl. J. Med.</i> 275(11):569-574.   |
| 107. | Popiel, I. and Turnbull, P. C. B. (1985). "Passage of Salmonella enteritidis and Salmonella thompson through Chick Ileocecal Mucosa," <i>Infect. and Immun.</i> 47(3):786-792.   |
| 108. | Price, C. et al. (1988). "Evolution of DNA Sequence Specificity in Type I Restriction enzymes," <i>Biochem. Soc. Trans.</i> 16(6):942-943.   |
| 109. | Reisenauer, A. et al. (1999). "Bacterial DNA Methylation: A Cell Cycle Regulator?" <i>Journal of Bacteriology</i> 181(17):5135-5139.   |
| 110. | Riggs, A.D. et al. (1996). <u>Epigenetic Mechanisms of Gene Regulation</u> . Russo, V.E.A., et al. eds., Cold Spring Harbor Laboratory Press, pp.1-4.  |
| 111. | Ringquist, S. and Cassandra L. Smith. (1992). "The <i>Escherichia coli</i> Chromosome Contains Specific, Unmethylated <i>dam</i> and <i>dcm</i> Sites," <i>Proc. Natl. Acad. Sci. USA</i> 89:4539-4543.  |
| 112. | Ritchie, L. et al. (1988). "A Mutation in the DNA Adenine Methylase Gene ( <i>dam</i> ) of Salmonella typhimurium Decreases Susceptibility to 9-Aminoacridine-Induced Frameshift Mutagenesis," <i>Mutation Research</i> 194:131-141.   |
| 113. | Ritchie, L.J. et al. (1986). "Mutant of Salmonella typhimurium LT2 deficient in DNA adenine methylation," <i>J. of Bacteriol.</i> 167(1):420-422.  |
| 114. | Roberts et al. (1985). "Experimental Pyelonephritis in the Monkey," <i>J. Urol.</i> 133: 1068-1075.  |
| 115. | Robertson G.T. et al. (2000). "The <i>Brucella abortus</i> CcrM DNA Methyltransferase Is Essential for Viability, and Its Overexpression Attenuates Intracellular Replication in Murine Macrophages," <i>J. of Bacteriol.</i> 182(12):3482-3489.                               |
| 116. | Roland et al. (1993). "Spontaneous <i>mprA</i> mutants of <i>Salmonella typhimurium</i> LT2 Define a New Two Component Regulatory System with a Possible Role in Virulence," <i>J. Bacteriol.</i> 75: 4154-4164.   |
| 117. | Sanderson, K.E. et al. "Strains of <i>Salmonella typhimurium</i> and Other <i>Salmonella</i> Species Used in Genetic Analysis," In <i>Escherichia coli</i> and <i>Salmonella</i> . 2nd Ed., Volume 2, Neidhardt, F.C. et al. eds., ASM Press: Washington, D.C., pp. 2496-2503. |
| 118. | Shivaprasad, H. L. (1990). "Pathogenesis fo Salmonella enteritidis Infection in Laying Chickens. I. Studies on Egg Transmission, Clinical Signs, Fecal Shedding, and Serologic Responses," <i>Avian Diseases</i> 34:548-557.   |
| 119. | Sirard, J. et al. (1999). "Live Attenuated Salmonella: A Paradigm of Mucosal Vaccines," <i>Immun. Rev.</i> 171:5-26.   |
| 120. | Slauch, J. M. et al. (1991). "Cis-acting <i>ompF</i> Mutations that Result in OmpR-Dependent Constitutive Expressions," <i>J. Bacteriol.</i> 173: 4039-4048.   |
| 121. | Smith C. L. et al. (1987). "Purification, Specific Fragmentation, and Separation of Large DNA Molecules," <i>Methods Enzymol.</i> 155: 449.  |

EXAMINER:

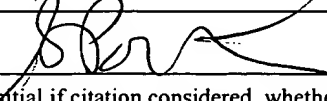
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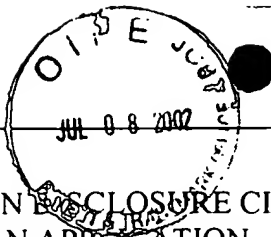
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|   | Applicant<br>Michael J. MAHAN et al. |                               |
|   | Filing Date August 9, 2001           | Group Art Unit 1548           |
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|------|---|
| 122. | Stambuk, S et al. (1998). "Mechanism and Control of Interspecies Recombination in Escherichia coli. I. Mismatch Repair, Methylation, Recombination and Replication Functions," <i>Genetics</i> 150:533-542.                       |
| 123. | Tacket, C.O. et al. (1992). "Comparison of the Safety and Immunogenicity of ΔaroC ΔaroD and ΔcyA Δcrp Salmonella typhi Strains in Adult Volunteers," <i>Infect. Immun.</i> 6(2):536-541.  |
| 124. | Takahashi, H. et al. (1990). "Induction of CD8 Cytotoxic T Cells by Immunization with Purified HIV-1 Envelope Protein In ISCOMs," <i>Nature</i> 344:873-875.  |
| 125. | Tavazoie, S. et al. (1998). "Quantitative Whole-Genome Analysis of DNA-Protein Interactions by <i>in vivo</i> Methylases Protection in <i>E. coli</i> ," <i>Nature Biotechnol.</i> 16: 566-571.                                   |
| 126. | Torreblanca, J. et al. (1996). "DNA Adenine Methylase Mutants of Salmonella typhimurium and a Novel Dam-Regulated Locus," <i>Genetics</i> 144(1): 15-26.  |
| 127. | Van der Woude et al. (1998). "Formation of DNA Methylation Patterns: Non-Methylated GATC Sequences in <i>gut</i> and <i>pap</i> Operons," <i>J. Bacteriol.</i> 180: 5913-5920.  |
| 128. | Van der Woude, M. W. et al. (1992). "Evidence for Global Regulatory Control of Pilus Expression in Escherichia coli by Lrp and DNA Methylation: Model Building Based on Analysis of PAP," <i>Mol Microbiol.</i> 6(17): 2429-2435. |
| 129. | Van der Woude, M.W. et al. (1996). "Epigenetic Phase Variation of the PAP Operon in Escherichia coli," <i>Trends Microbiol.</i> 4(1):5-9.   |
| 130. | Vescovi, G. et al. (1996). "Mg <sup>2+</sup> as an Extracellular Signal: Environmental Regulation of <i>Salmonella</i> Virulence," <i>Cell</i> 84: 165-174.   |
| 131. | Vinella, D et al. (1996). "Mecillinam Resistance in Escherichia coli is Conferred by Loss of a Second Activity of the AroK protein," <i>J. of Bacteriol.</i> 178(13): 3818-3828.  |
| 132. | Wang, R.F. and Sidney R. Kishner. (1991). "Construction of Versatile Low-Copy-Number Vectors for Cloning, Sequencing and Gene Expression in <i>Escherichia coli</i> ," <i>Gene</i> 100:195-199.                                   |

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|--|--------------------------|
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Docket Number 220002060724

Application Number 09/927,788

Applicant

Michael J. MAHAN et al.

# 13

Filing Date August 9, 2001

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| <i>[Signature]</i>   | 1.          | Bizzini, B. (1984). "Tetanus," Chapter 2 <i>In Bacterial Vaccines R.</i> Germanier ed., Academic Press Inc.: Orlando, Fl.. pp. 37-68.                        |
| <i>[Signature]</i>   | 2.          | Manclark, C.R. and Cowell, J.L. (1984). "Pertussis," Chapter 3 <i>In Bacterial Vaccines R.</i> Germanier ed., Academic Press Inc.: Orlando, Fl.. pp. 69-106. |

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